

FIG. 1
PRIOR ART

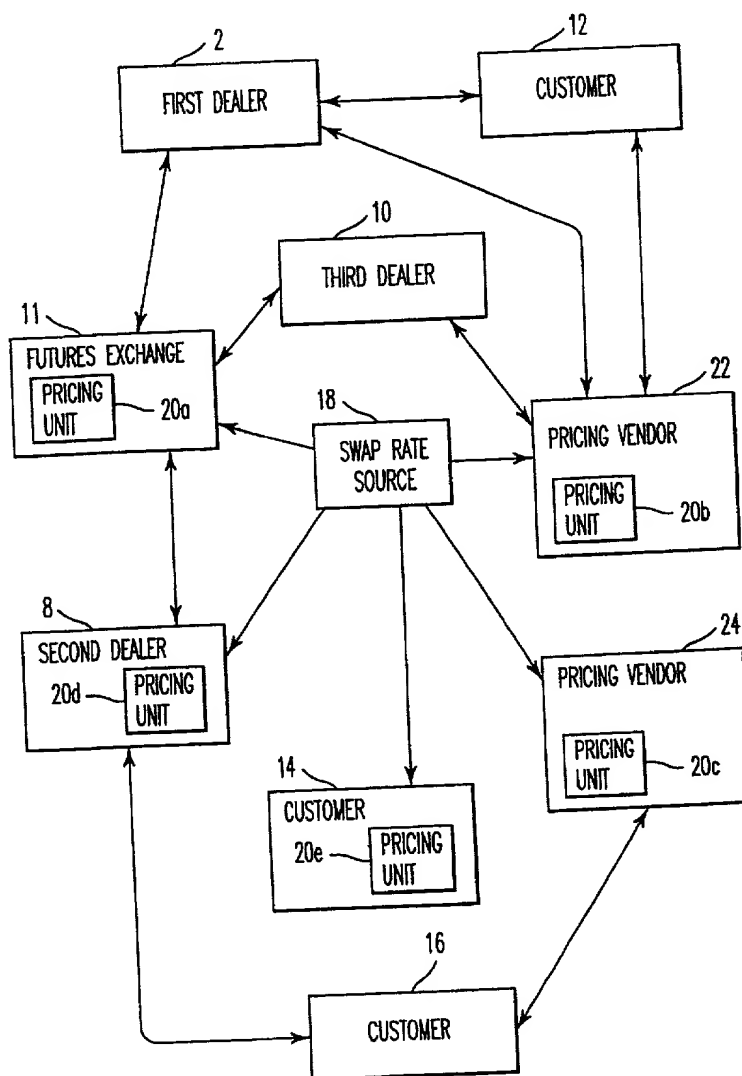


FIG. 2

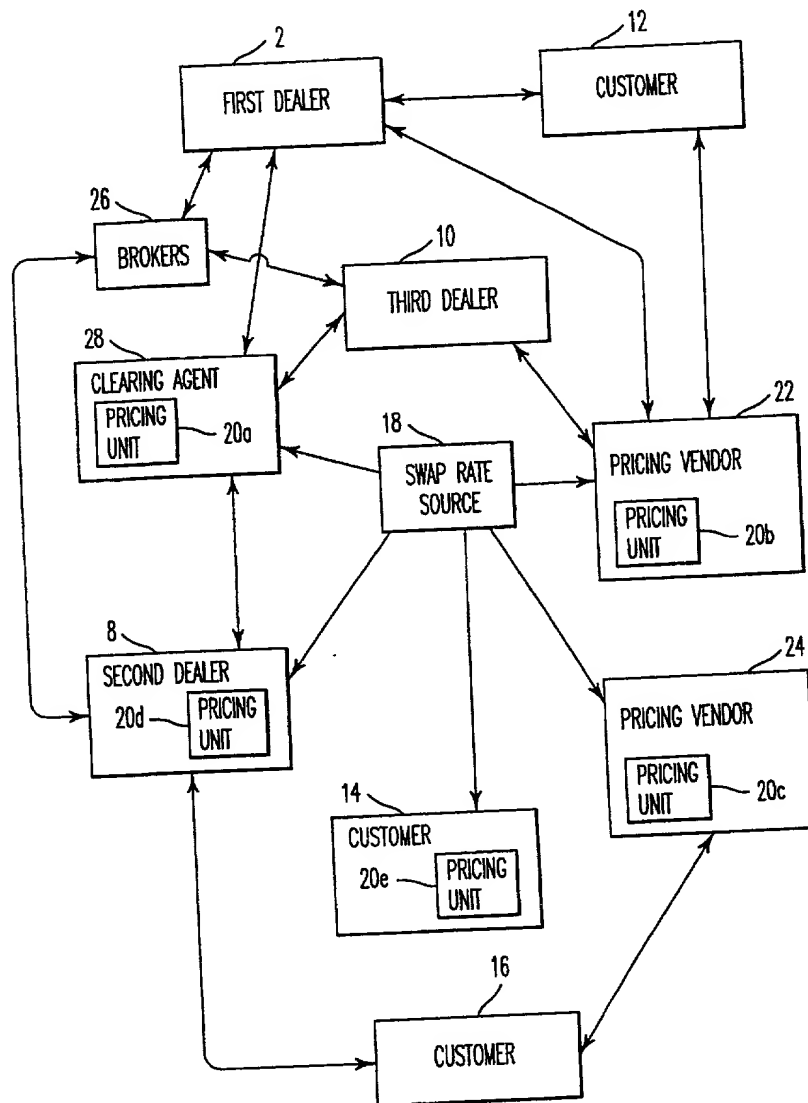


FIG. 3

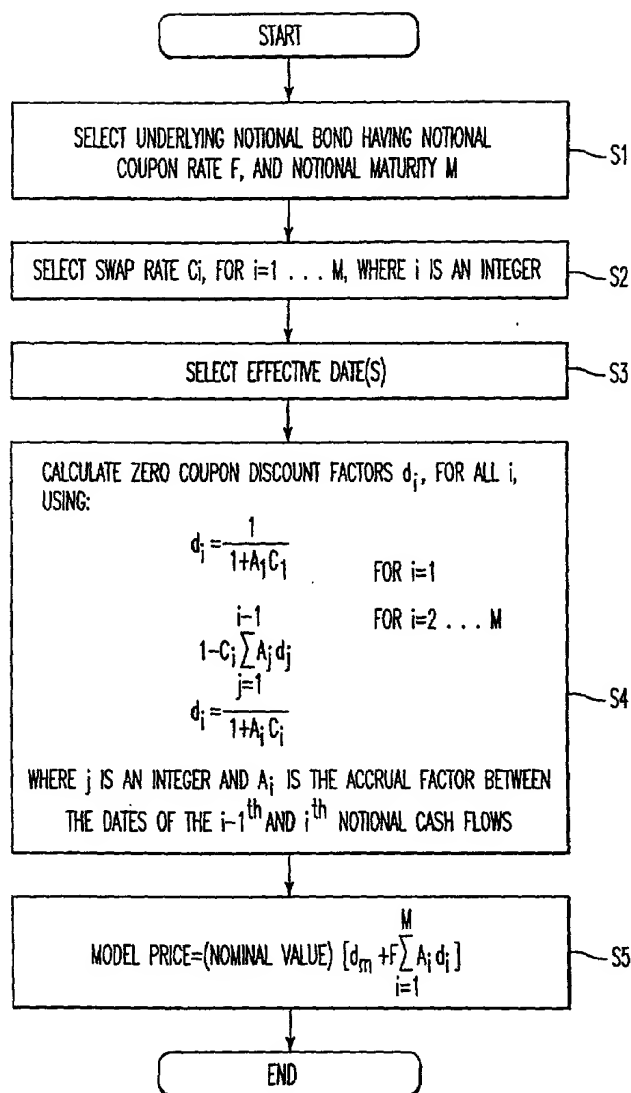


FIG. 4A

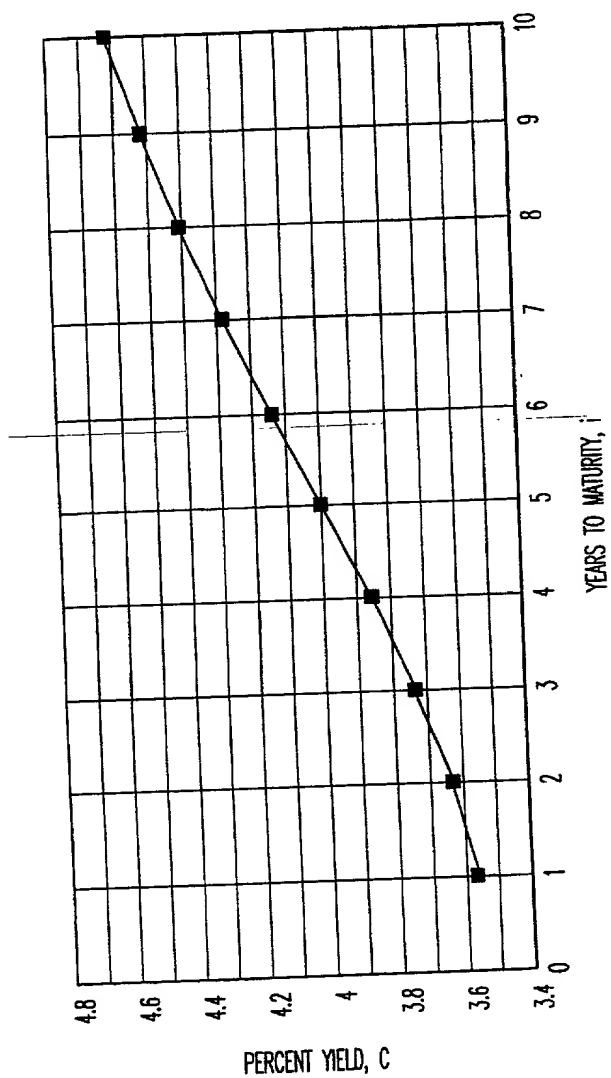


FIG. 4B

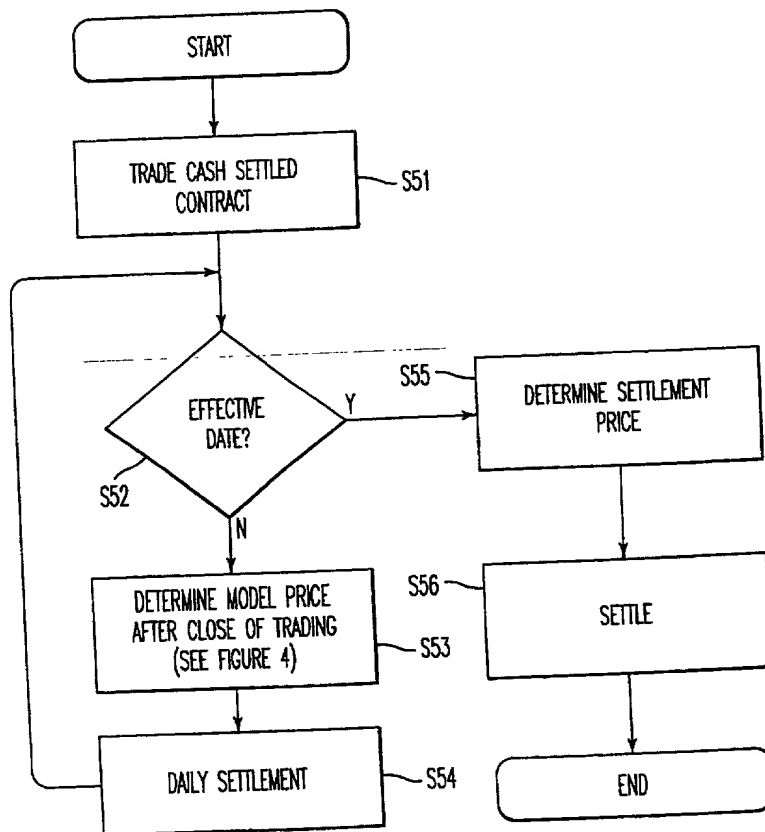


FIG. 5A

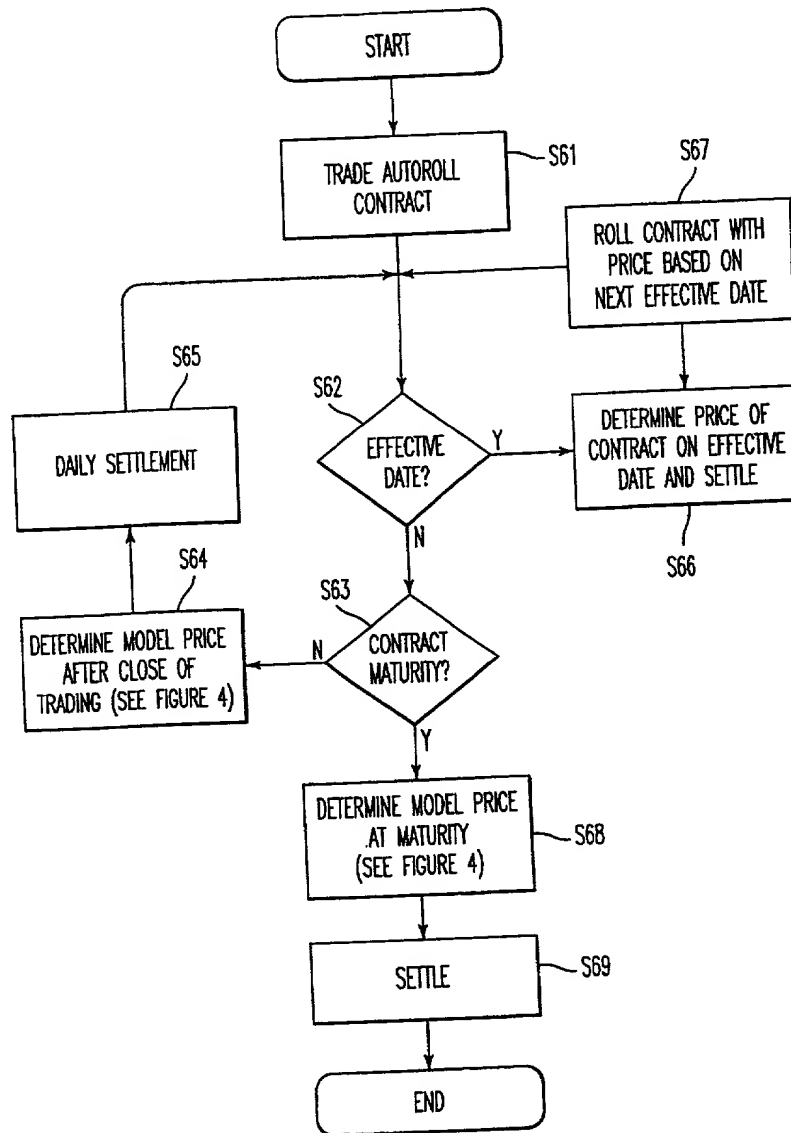


FIG. 5B

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graph TD
    START([START]) --> S71[TRADE OPTION TO TRADE  
CONTRACT PRICED  
ACCORDING TO FIGURE 4]
    S71 --> S73{EXERCISE DATE  
TRANSPRIRED?}
    S73 -- Y --> END1([END])
    S73 -- N --> S75{EXERCISE  
OPTION?}
    S75 -- Y --> S77[DETERMINE MODEL PRICE  
(SEE FIGURE 4)]
    S75 -- N --> S73
    S77 --> S79[SETTLE OPTION BASED ON  
DIFFERENCE BETWEEN STRIKE  
PRICE AND MODEL PRICE]
    S79 --> END2([END])
  
```

FIG. 6

FIG. 6

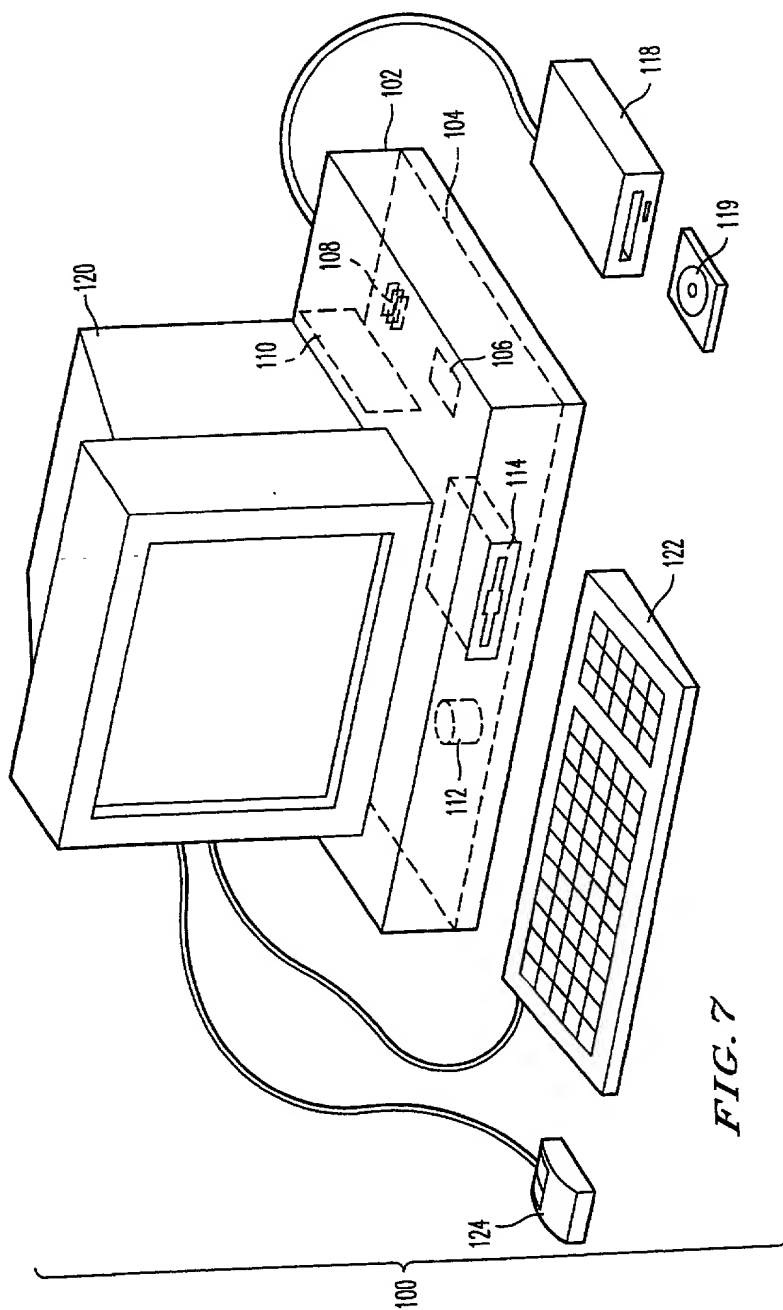


FIG. 7

	A	B	C	D	E	F	G	H	I	J	K
1	INPUTS										
2	(Alter Blue Figures in Green Background/DropDown Lists Only)										
3											
4	Swap Rates (taken on Last Trading Day)										
5	Swaps (Fixed Side)	360									
6	Swap Settlement Delay (Days)	2									
7	Libor Daycount	360									
8	Last Trading Day	14-Dec-98									
9											
10	Type	Source	Term	Rate							
11			Months								
12	Zero Coupon	LIBOR	1	3.457							
13	Zero Coupon	LIBOR	3	3.469							
14	Zero Coupon	LIBOR	6	3.469							
15	Zero Coupon	LIBOR	9	3.531							
16			Years								
17	Fixed Income	IRS mkt	1	3.570							
18	Fixed Income	IRS mkt	2	3.628							
19	Fixed Income	IRS mkt	3	3.731							
20	Fixed Income	IRS mkt	4	3.860							
21	Fixed Income	IRS mkt	5	4.000							
22	Fixed Income	IRS mkt	6	4.139							
23	Fixed Income	IRS mkt	7	4.276							
24	Fixed Income	IRS mkt	8	4.409							
25	Fixed Income	IRS mkt	9	4.522							
26	Fixed Income	IRS mkt	10	4.621							

Notional Cash Flows				Delivery Month Details			
Notional	Coupon	Start Date	Initial Maturity	Expiring Front Month	Effective Date	Remaining Maturity	
6		16-Dec-98	10	Dec-98	16-Dec-98	10	
		End Date	16-Dec-08	Back Month	Effective Date		
				Mar-99	17-Mar-99	9 3/4	

Front Month	16-Dec-98
EDSP	111.03
Back Month	
Effective Date	17-Mar-99
Fair Value (as of Front Month Effective Date)	110.49
Calendar Roll	
Calendar Roll (price basis points)	54

FIG. 8

	A	B	C	D	E	F	G	H	I	J
	Source	Term	Maturity of par swap	Day	Rate	"Following" Maturity	Day of "Following" Maturity	Accrual Factor	Zero Coupon Discount Factor (term from Front Month Effective Date)	
1										1.000000
2		Year(s)	16-Dec-98	Wednesday		16-Dec-98	Wednesday			0.996841
3	BBA LIBOR	1/12	16-Jan-99	Saturday	3.457	18-Jan-99	Monday	0.091666667		0.991403
4	BBA LIBOR	1/4	16-Mar-99	Tuesday	3.469	16-Mar-99	Tuesday	0.25		0.982766
5	BBA LIBOR	1/2	16-Jun-99	Wednesday	3.469	16-Jun-99	Wednesday	0.505555556		0.973827
6	BBA LIBOR	3/4	16-Sep-99	Thursday	3.531	16-Sep-99	Thursday	0.761111111		0.965531
7	IRS mkt	1	16-Dec-99	Thursday	3.570	16-Dec-99	Thursday	1.000	0.965531	0.9310060
8	IRS mkt	2	16-Dec-00	Saturday	3.628	18-Dec-00	Monday	1.006	0.936178	0.8957207
9	IRS mkt	3	16-Dec-01	Sunday	3.731	17-Dec-01	Monday	0.997	0.893233	0.8590481
10	IRS mkt	4	16-Dec-02	Monday	3.860	16-Dec-02	Monday	0.997	0.856662	0.8210922
11	IRS mkt	5	16-Dec-03	Tuesday	4.000	16-Dec-03	Tuesday	1.000	0.821092	0.7824880
12	IRS mkt	6	16-Dec-04	Thursday	4.139	16-Dec-04	Thursday	1.000	0.782488	0.7434964
13	IRS mkt	7	16-Dec-05	Friday	4.276	16-Dec-05	Friday	1.000	0.743496	0.7042934
14	IRS mkt	8	16-Dec-06	Saturday	4.409	18-Dec-06	Monday	1.006	0.708206	0.6666523
15	IRS mkt	9	16-Dec-07	Sunday	4.522	17-Dec-07	Monday	0.997	0.664801	0.6303087
16	IRS mkt	10	16-Dec-08	Tuesday	4.621	16-Dec-08	Tuesday	0.997	0.628558	

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FIG. 9

	A	B	C	D	E	F
1						
2						
	Cash flow (in years from Start day)	Notional Cash Flow (Cf) Dates	"Following" Cash Flow Dates	Accrual Factor (30E/360)	Notional Cash Flow	Adjusted Cash Flow
3						
4	Start Date	16-Dec-98	16-Dec-98	1.000	6	6
5	1	16-Dec-99	16-Dec-99	1.006	6	6.033333333
6	2	16-Dec-00	18-Dec-00	0.997	6	5.983333333
7	3	16-Dec-01	17-Dec-01	0.997	6	5.983333333
8	4	16-Dec-02	16-Dec-02	1.000	6	6
9	5	16-Dec-03	16-Dec-03	1.000	6	6
10	6	16-Dec-04	16-Dec-04	1.000	6	6
11	7	16-Dec-05	16-Dec-05	1.006	6	6.033333333
12	8	16-Dec-06	18-Dec-06	0.997	6	5.983333333
13	9	16-Dec-07	17-Dec-07	0.997	106	105.9833333
14	10	16-Dec-08	16-Dec-08	0.997		

FIG. 10A

G	H	I	J	K	L
Discount Factor (From Front Effective Date)	PV (Front Effective Date) of Adj Cash Flows	PV (Front Effective Date) of Cash Flows After front Month	PV (Back Effective Date) of Cash Flows After Back Month	AI at Front Month Effective Date	AI at Back Month Effective Date
0.966	5.793	5.793183354	5.843974503	0	1.516666667
0.931	5.617	5.617069558	5.666316647	0	0
0.896	5.359	5.35939573	5.40638369	0	0
0.859	5.140	5.139971205	5.185035383	0	0
0.821	4.927	4.926553083	4.969746138	0	0
0.782	4.695	4.694927743	4.736090047	0	0
0.743	4.461	4.460978687	4.500089866	0	0
0.704	4.249	4.249236816	4.28649157	0	0
0.667	3.989	3.988803133	4.023774456	0	0
0.630	66.802	66.80221772	67.3878994	0	

FIG. 10B

FIG.11A	FIG.11B
FIG.11C	FIG.11D

FIG. 11

[illegible]

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FP Sensitivity to 1 basis point implied yield shift		Dirty Price sensitivity to 1 basis point spot YTM shift		Notional Cash Flows		Curve Adjustment	
1.878		7.8746		PV of cash flow points on per curve by the following (basis points)		1	
Accrued Factor		Adjusted notional coupon/principal		PV of cash flow points on per curve by the following (basis points)		1	
1.00000	5.00000	4.824127	0	0.987021	4.824127	0.987021	4.824127
1.00556	5.02778	4.870045	0	0.991777	4.891411	0.991777	4.891411
0.99722	4.96111	4.46208	0	0.982174	4.44820	0.982174	4.44820
1.00000	4.98611	4.252615	0	0.975403	4.068331	0.975403	4.252615
1.00000	5.00000	4.068797	1	0.964832	3.870653	0.964832	4.068797

FIG. 11B

[illegible][illegible]

FIG. 11C

[illegible]